

Information centre

News and events



91.0						
A Health topics Data Med	ia centre Publications	Countries	Programmes	Governance	About WHO	
Clean Care is Safer Care						
Clean Care is Safer Care	Clean Care is Safer Care  Background to Clean Care is Safer Care					
Save Lives: Clean Your Hands	In previous years, WHO Global Patient Safety Challenges were born from calls from around the world on specific patient safety issues, and were also reflected in global campaigns, which have brought together expertise and evidence to raise awareness, and to catalyze political and professional commitment on these important topics. They have also generated knowledge, recommendations and actions to improve the safety of patients receiving care globally.					
The evidence for clean hands						
Campaigning countries						

### The focus and objectives of Clean Care is Safer Care

The first of these Challenges, Clean Care is Safer Care, which was launched in 2005, targeted the important aspect of reducing health care-associated infections (HCAIs). HCAI is the most frequent harmful event in health-care delivery and occurs



In 10 years, Clean Care is Safer Care has evolved to become the Infection Control Programme hosted by the new WHO HQ Service Delivery and Safety department







Continuing to aim to reduce healthcare-associated infection worldwide



# 1<sup>st</sup> GPSC Change Model 3 main objectives

**Burden of HCAI Stakeholders' engagement** 

1. Awareness raising

Country pledges
National campaigns

2. Mobilising nations

Implementation strategies

3. Technical guidelines and tools



### Awareness raising on HAI endemic burden

### Allegranzi B et al. Lancet 2011;377:228-41

Burden of endemic health-care-associated infection developing countries: systematic review and meta-

Benedett a Allegranzi, Sepideh Bagher i Nejag, Christophe Combescure, Wilco Graofmans, Homa Attar, Liam Donaldson, Did

Background Health-care-associated infection is the most frequent result of unsafe patient care w data are available from the developing world. We aimed to assess the epidemiology of endemic hea

Methods We searched electronic databases and reference lists of relevant papers for articles pub Studies containing full or partial data from developing countries related to infectio incidence—including overall health-care-associated infection and major infection sites, and the cause—were selected. We classified studies as low-quality or high-quality according to predefi were pooled for analysts.

Findings Of 271 selected articles, 220 were included in the final analysis. Limited data were ret regions and many countries were not represented. 118 (54%) studies were low quality. In general, inf reported in high quality studies were greater than those from low-quality studies. Prevalence of hea infection (pooled prevalence in high-quality studies, 15-5 per 100 patients [95% CI 12-6-18-9]) was proportions reported from Europe and the USA. Pooled overall health-care associated infection tmensive-care units was 47-9 per 1000 patient days (95% CI 36-7-59-1), at least three times as reported from the USA. Surgical site infection was the leading infection in hospitals (pooled cur 5.6 per 100 surgical procedures), strikingly higher than proportions recorded in developed countri bacilli represented the most common nosocomial isolates. Apart from meticillin resistance, noted i Staphylococcus cureus isolates (in eight studies), very few articles reported antimicrobial resistance

interpretation The burden of health-care associated infection in developing countries is high. Our need to improve surveillance and infection-control practices.

Funding World Health Organization.

frequent adverse event threatening patients' safety worldwide.13 However, reliable estimates of the global is to assess the burden of endemic heal burden are hampered by a paucity of data adequately infection in developing countries describing endemic infections at national and regional available data from published studies levels, particularly in resource-limited sentings.4 In We also aim to investigate const countries where less than 5% of the gross national surveillance of health-care-associat product is spent on health care, and workforce density is resource-limited settings and iden less than five per 1000 population,3 other emerging for improvement. health problems and diseases take priority.6 The epidemiological gap leading to the absence of reliable Methods estimates of the global burden is mainly because. Search strategy and selection criteria surveillance of health-care-associated infection expends We undertook a literature search at time and resources and needs expertise in study design, according to a protocol designed befo data collection, analysis, and interpretation. Very few We aimed to identify studies on the countries of low and middle income have national health-care-associated infection in dev surveillance systems for health-care-associated with a particular focus on the most infections. Data from the International Nosocomial infections-urinary-tract infection, sur Infection Control Consortium,3 and findings of two bloodstream infection, hospital-acquire systematic reviews on hospital-acquired neonatal ventilator-associated pneumonia. We infections\* and ventilator-associated pneumonta,\* for reports published between Jan suggested not only that risks of health-care-associated December, 2008, with no language resi infection are significantly higher in developing countries comprehensive list of terms (panel 1)

but also that the effect on patterns Health-care-associated infections are deemed the most systems is severe and greatly underest

Articles



Patient Safety

Published on 5 May 2011 http://www.who.int/gpsc/en/

Report on the Burden of Endemic Health Care-Associated Infe Worldwide

Clean Care is Safer Care



### Systematic reviews

### Health-care-associated infection in Africa: a systematic review

Sepideh Bagheri Nejad, a Benedetta Allegranzi, a Shamsuzzoha B Syed, a Benjamin Ellisa & Didier Pitteta

Objective To assess the epidemiology of endemic health-care-associated infection (HAI) in Africa.

Methods Three databases (PubMed, the Cochrane Library, and the WHO regional medical database for Africa) were searched to identify studies published from 1995 to 2009 on the epidemiology of HAI in African countries. No language restriction was applied. Available abstract books of leading international infection control conferences were also searched from 2004 to 2009.

Findings The eligibility criteria for inclusion in the review were met by 19 articles, only 2 of which met the criterion of high quality. Four vant abstracts were retrieved from the international conference literature. The hospital-wide prevalence of HAI varied between 2.5% and 14.8%; in surgical wards, the cumulative incidence ranged from 5.7% to 45.8%. The largest number of studies focused on surgical site infection, whose cumulative incidence ranged from 2.5% to 30.9%. Data on causative pathogens were available from a few studies only and highlighted the importance of Gram-negative rods, particularly in surgical site infection and ventilator-associated pneumonia. Conclusion Limited information is available on the endemic burden of HAI in Africa, but our review reveals that its frequency is much higher than in developed countries. There is an urgent need to identify and implement feasible and sustainable approaches to strengther HAI prevention, surveillance and control in Africa.

Abstracts in 🛶 中文, Français, Русский and Español at the end of each article.

Health-care-associated infection (HAI) is a major global safety in the scientific literature. It also identifies information gaps, concern for both patients and health-care professionals. 1-3 HAI is examines differences in HAI epidemiology between developed defined as an infection occurring in a patient during the process of care in a hospital or other health-care facility that was not World Health Organization (WHO) in preventing HAI. manifest or incubating at the time of admission. This include infections acquired in the hospital and any other setting where Methods patients receive health care and may appear even after discharge. HAI also includes occupational infections among facility staff.1 These infections, often caused by multiresistant pathogens, take A literature search was performed from January 1995 to Decema heavy toll on patients and their families by causing illness, ber 2009 with no language restriction to retrieve publications on prolonged hospital stay, potential disability, excess costs and the epidemiology of the most common HAIs in African coun-

The burden of HAI is already substantial in developed countries, where it affects from 5% to 15% of hospitalized patients in bloodstream infection. PubMed was searched using a combinaregular wards and as many as 50% or more of patients in intensive tion of the following keywords, including "cross-infection" as care units (ICUs). In developing countries, the magnitude of the MeSH term: "nosocomial infection", "hospital acquired" the problem remains underestimated or even unknown largely "incidence", "prevalence" and "rate" together with the individual because HAI diagnosis is complex and surveillance activities to country names. The Cochrane Library was searched for any guide interventions require expertise and resources. Surveillance relevant review papers. Reference lists of retrieved articles were systems exist in some developed countries and provide regular hand searched for additional studies. reports on national trends of endemic HAL, such as the National Healthcare Safety Network of the United States of America or tabase for Africa, African Index Medicus, using a shorter list of esthe German hospital infection surveillance system. This is not sential keywords and with no time restriction. The abstract books the case in most developing countries10 because of social and of the following international conferences were also searched pitals result in inadequate infection control practices, and a lack Society for Healthcare Epidemiology of America (SHEA), Euroalso adds to the extent of the problem.

This review provides a general overview of the endemic burden of HAI in Africa based on the information available and developing countries and highlights the possible role of the

### Search strategy and selection criteria

tries: health-care-associated urinary tract infection (HA-UTI) surgical site infection (SSI), hospital-acquired pneumonia ventilator-associated pneumonia and health-care-associated

A separate search was run in the WHO regional medical da health-care system deficiencies that are aggravated by economic from 2004 to 2009: Interscience Conference on Antimicrobial problems. Additionally, overcrowding and understaffing in hos- Agents and Chemotherapy (ICAAC), Annual Congress of the of infection control policies, guidelines and trained professionals pean Congress of Clinical Microbiology and Infectious Diseases (ECCMID), International Federation of Infection Control



Patient Sa Bagheri Nejad S, et al. Bull OMS A World Alliance for Safer F 2011;89:757-765



## Political commitment is essential to achieve improvement in infection control

Ministerial pledges to the 1<sup>st</sup> Global Patient Safety Challenge

I resolve to work to reduce health care-associated infection (HCAI) through actions such as:

- acknowledging the importance of HCAI;
- hand hygiene campaigns at national or sub-national levels;
- sharing experiences and available surveillance data, if appropriate;
- using WHO strategies and guidelines...



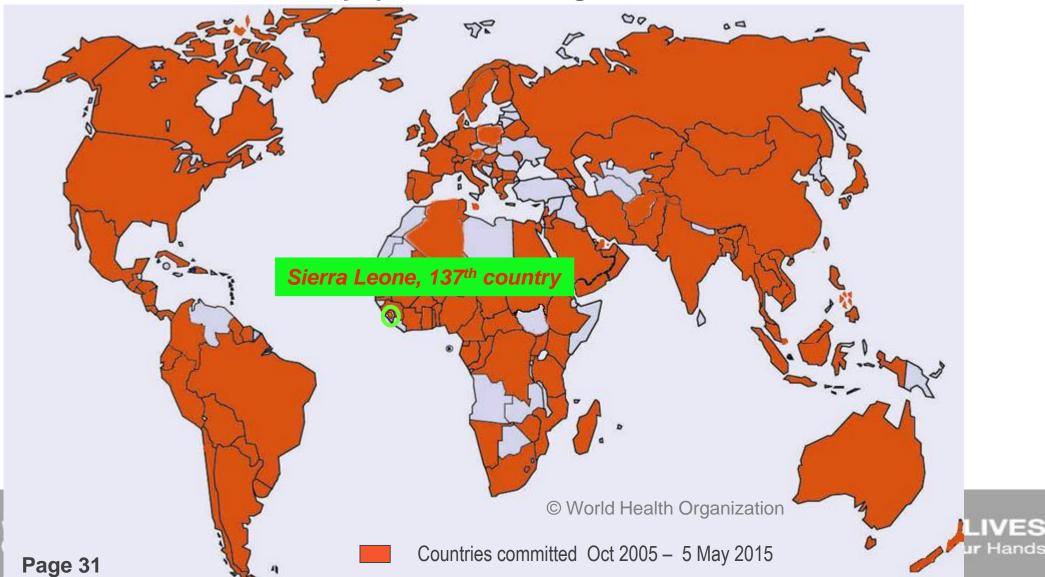






## 137 countries committed to address health care-associated infection

World population coverage : > 93 %





On 5 May 2015, His Excellency the Sierra Leone Minister of Health and Sanitation pledges to fight against healthcare-associated infections in memory of the fallen heroes of Sierra Leone Health Sector due to Ebola Viral Disease





### Adoption and adaptation of Clean Care is Safer Care worldwide









### Implementation levels



First Global Patient Safety Challenge

Global level

Facility-level: point of care

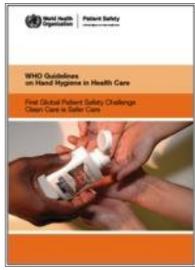


## Implementation strategy and toolkit for the WHO Guidelines on Hand Hygiene in Health Care

### Knowledge & evidence



### **Action**









## What is the WHO Multimodal Hand Hygiene Improvement Strategy?

Based on the evidence and recommendations from the WHO Guidelines on Hand Hygiene in Health Care (2009), made up of 5 core components, to improve hand hygiene in healthcare settings

**ONE** System change

Alcohol-based handrubs at point of care and access to safe continuous water supply, soap and towels



### TWO Training and education

Providing regular training to all health-care workers



### THREE Evaluation and feedback

Monitoring hand hygiene practices, infrastructure, perceptions, & knowledge, while providing results feedback to health-care workers



### FOUR Reminders in the workplace

Prompting and reminding health-care workers



FIVE Institutional safety climate

Individual active participation, institutional support, patient participation

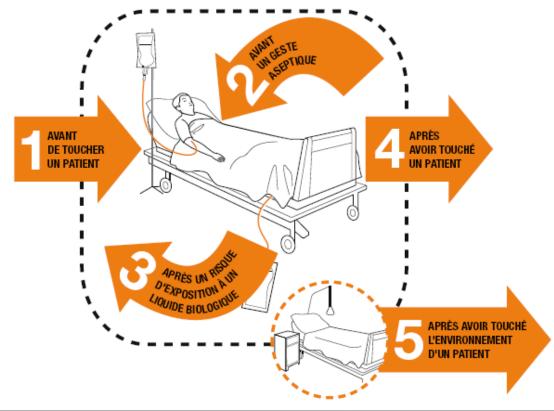


### Field Testing of the WHO Guidelines (2006-2008)



### A successful branding





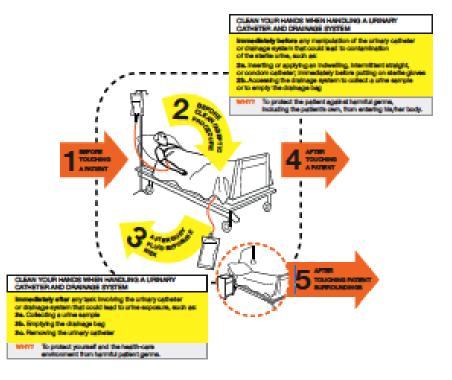




### 2014

### My 5 Moments for Hand Hygiene

### Focus on caring for a patient with a Urinary Catheter



### 5 KEY ADDITIONAL CONSIDERATIONS FOR A PATIENT WITH A URINARY CATHETER

- Make sure that there is an appropriate indication for the indiveiling urinary catheter.
- Use a closed urinary drainage system, and keep it closed.
- Insert the oatheter aseptically using sterile gloves.
- Assess the patient at least daily to determine whether the catheter is still necessary.
- Patients with indwelling urinary cathelers do not need antibiotics (including for asymptometic bacteriuris), unless they have a documented infection.



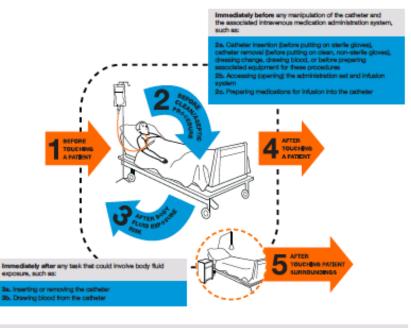
SAVE LIVES Clean Your Hands No Action Today No Cure Tomorrow Page 15





### My 5 Moments for Hand Hygiene

Focus on caring for a patient with a central venous catheter



### Key additional considerations for central intravenous catheters

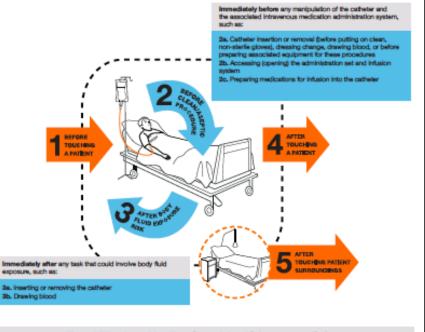
- Indication: Ensure that a central intravenous catheter is indicated. Remove the catheter when no longer needed/clinically indicated.
- Insertion/maintenance/remove
- Avoid inserting catheters into the femoral vein.
- 2.2 Prepare clean skin with an antiseptic (alcohol-based 2% chlorhexidine-gluconate preferred) before insertion.
- Use full sterile barrier precautions during insertion (csp, surgical mask, sterile gloves, sterile gown, large sterile drape).
- 2.4 Replace gauze-type dressings every 2 days and transparent dressings every 7 days; replace dressings whenever visibly soiled.
- 2.5 Change tubing used to administer blood, blood products, chemotherapy, and fat emulsions within 24 hours of infusion start. Consider changing all other tubing
- Use aseptic procedure (with non-touch technique) for all catheter manipulations.
- "Scrub the hub" with alcohol-based chlorhexidine-gluconate for at least 15 seconds.
- Monitoring: Record time and date of catheter insertion, removal and dressing change, and condition (visual appearance) of the catheter skin site every day.



Clean Care is Safer Care 2005-2015

### My 5 Moments for Hand Hygiene

Focus on caring for a patient with a peripheral venous catheter



### Key additional considerations for peripheral intravenous catheters

- Indication: Ensure that a peripheral venous catheter is indicated. Remove the catheter when no longer necessary/clinically indicated.
- necessary/clinically indicated.
- 2.1 Prepare clean skin with an antiseptic (70% alcohol, tincture of lodine, an lodophor, or alcohol-based 2% chlorhexidine gluconate) before catheter insertion.
- 2.2 Wear clean, non-sterile gloves and apply an aseptic procedure (with non-touch technique) for catheter insertion, removal, and blood sampling.
- Replace any dry gauze-type dressings every 2 days.
- Consider scheduled catheter change every 95 hours.
   Change tubing used to administer blood, blood
- 2.5 Change tubing used to administer bood, blood products, chemotherapy, and fat emulsions within 24 hours of infusion start. Consider changing all other tubing every 98 hours.
- Monitoring: Record time and date of catheter insertion, removal and dressing change, and condition (visual appearance) of catheter site every day.

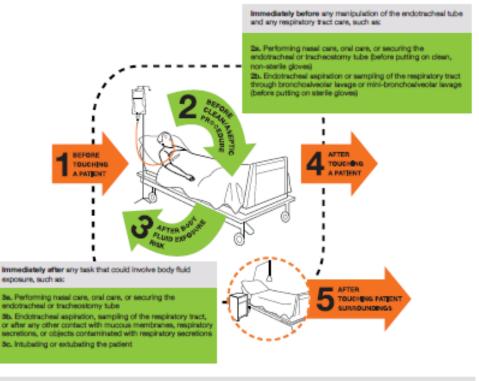


SAVE LIVES Clean Your Hands Clean Care is Safer Care 2006-2015



### My 5 Moments for Hand Hygiene

### Focus on caring for a patient with an endotracheal tube



### Key additional considerations for adult patients with endotracheal tubes

- Avoid intubation and use non-invasive ventilation whenever appropriate.
- If possible, provide endotracheal tubes with subglottic secretion drainage ports for patients likely to require more than 48 hours of intubation.
- Elevate the head of the bed to 30°-45°.
- Manage ventilated patients without sedatives whenever possible.

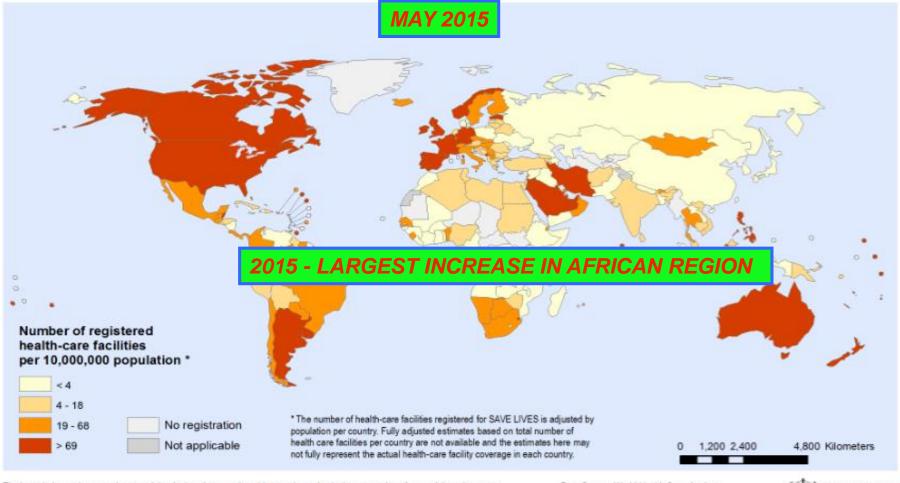
- Assess readiness for extubation every day by performing spontaneous breathing trials with sedatives turned off (in patients without contraindications).
- Perform regular oral care aseptically using clean, non-sterile gloves.
- Facilitate early exercise and mobilization to maintain and improve physical condition.
- Change the ventilator circuit only if visibly solled or malfunctioning.







### Countries with health-care facilities registered for SAVE LIVES: Clean Your Hands global campaign



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Health Organization Map Production: Health Statistics and Information Systems (HSI) World Health Organization



Page 18



## WHO Service Delivery & Safety dept – Clean Care is Safer Care Focus in 2014-2015 (1)

- Support for and consolidation of hand hygiene improvement through SAVE LIVES: Clean Your Hands campaign, CleanHandsNet, and POPS – <u>5 May 2015</u>
- Infection prevention and control (IPC) for the Ebola outbreak
  - Response
  - Recovery
  - Resilience
- Country support for capacity building and strengthening the core components of IPC programmes
- Burden of HAI worldwide SSI burden update





# WHO Service Delivery & Safety dep – Clean Care is Safer Care Focus in 2014-2015 (2)

- Prevention of surgical site infection
  - ✓ New Guidelines under development
  - ✓ Surgical Unit-based Safety Programme (SUSP) project in African hospitals
  - Manual on sterilization and safe processing of medical devices (launch in June 2015)
- Injection safety new global initiative
  - ✓ New Policy launched in February 2015
  - New Global Injection Safety campaign (to be launched)
- AMR prevention and control in health care
  - ✓ AMR IPC expertise provided in consultations
  - ✓ AMR hand hygiene resources produced for 5 May 2014





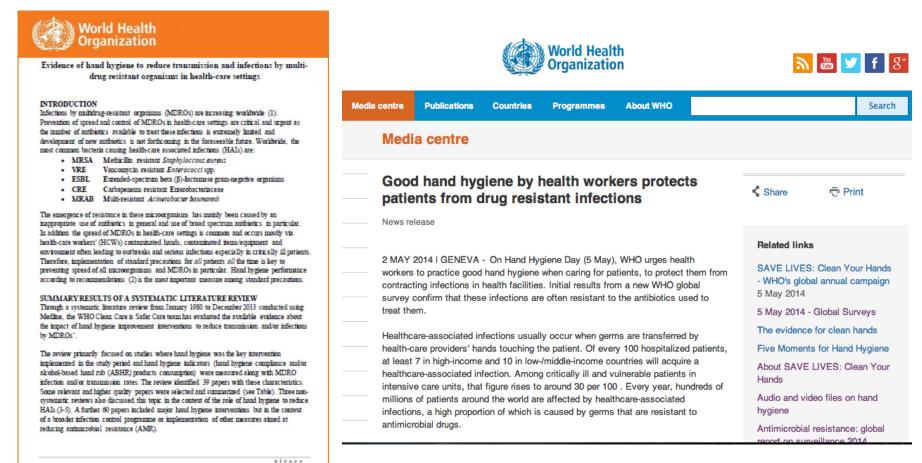
### 5 May 2015: hand hygiene is the entrance door to strengthening health-care systems and delivery







## Impact of hand hygiene to reduce transmission and infections by MDROs in health-care settings a systematic literature review



http://www.who.int/gpsc/5may/EN\_PSP\_GPSC1\_5May\_2014/en/





### **Summary results**

- From Jan. 1980 to Dec. 2013
- 39 studies on hand hygiene as the key intervention implemented in the study period and including data about impact on MDROs' infection and/or transmission rates, as well as on hand hygiene indicators, were identified
- Only 4/39 studies failed to demonstrate an impact of hand hygiene interventions or improvement in the MDRO's infection and/or colonization
  - One of these studies <u>did not show any significant improvement of hand hygiene</u> <u>compliance</u> thus explaining the failure to reduce infections, while <u>another study</u> was a **low/quality** retrospective study
- Additional 60 studies investigated the impact of hand hygiene (HH) to reduce MDRO's infections as part of interventions including other infection control measures



## Awareness raising - a social marketing strategy #safeHANDS and country engagement

## **SAVE LIVES**



Clean Your Hands



#safeHANDS

















LIVES ur Hands





Families pledging for #safeHANDS for their parents

Page 28





























LIVES our Hands



Page 21













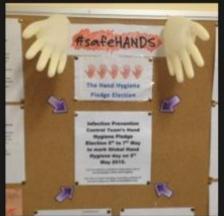












LIVES our Hands

























E LIVES



Page 23























LIVES

our Hands





Hong Kong 5 May 2014 Page 45
SAVE LIVES
Clean Your Hands





Hong Kong 5 May 2014 Page 55 SAVE LIVES Clean Your Hands

# Key lessons learned for infection prevention and control (IPC) from the Ebola outbreak

- Absence of IPC basic measures and infrastructures both in the community and in healthcare settings led to the unprecedented situation of this outbreak
- The lack of access to safe water, of proper hygiene, and poor sanitation contributed to the propagation of the virus both the community and healthcare facilities

## **Ebola Recovery Assessment Water, sanitation, and hygiene**

 Lack of access to water, sanitation, and poor hygiene practices were problems pre-Ebola, exacerbated the outbreak, and will remain problems post-Ebola

Indicator	Guinea	Liberia	Sierra Leone
Water supply coverage	<b>92%</b> (urban areas; very poor reliability)	<b>65%</b> (rural areas; 50% fully functioning year-round)	60%
Access to improved sanitation	18.9%	16.8%	13%



## Global report-availability of soap and water or handrubs is sub-optimal

- Review based on data from 54 countries,
   representing over 66,000 health care facilities
- Globally, 35% of facilities have no soap and water or handrubs for hand hygiene
- No data on functionality or frequency of use
- Other indicators similarly low: 38% of facilties have no water, 19% have no sanitation and 42% lack a system for safe disposal of health care waste



WHO/UNICEF, 2015. Water, sanitation and hygiene in health care facilities: status in low-and middle-income countries and way forward.

http://www.who.int/water sanitation health/publications/wash-health-care-facilities/en/



## Beyond handwashing-preventing infection requires a comprehensive approach

- Water Quality (safe management; no fecal contamination)
- Water Quantity (5-300 liters/person/day depending on type of facility and services provided)
- Excreta disposal and management
- Greywater disposal and management
- Health care waste management
- Food storage and preparation
- Control of vectorborne disease
- Hygiene promotion



WHO, 2008. Essential environmental health standards in health care. World Health Organization, Geneva. <a href="http://www.who.int/water\_sanitation\_health/hygiene/settings/ehs\_hc/en/">http://www.who.int/water\_sanitation\_health/hygiene/settings/ehs\_hc/en/</a>



## Global Action Plan to address water, sanitation and hygiene (WASH) in health care facilities

- WHO and UNICEF hosted global meetings in 2014 (Madrid) and 2015 (Geneva) to develop basis for plan
- WASH important input for, not separate from, infection prevention and control and the Clean Care is Safer Care efforts
- Main elements of draft plan include:
  - National policies, standards and targets
  - Financing and human resources-improving WASH services
  - Monitoring
  - Advocacy (global, national and local)
- Early adopters to address issue comprehensively include Ethiopia, Sierra Leone and Zambia



# New WHO Guidelines on Hand Hygiene in Health Care in the Context of Filovirus Disease Outbreak Response

GUIDELINE ON HAND HYGIENE IN HEALTH CARE IN THE CONTEXT OF FILOVIRUS DISEASE OUTBREAK RESPONSE

RAPID ADVICE GUIDELINE

**NOVEMBER 2014** 

- 1. Are chlorine solutions effective for hand hygiene in health care?
- 2. Are chlorine solutions effective for disinfection of gloves?
- 3. Does the use of chlorine solutions for hand hygiene cause health workers' skin irritation or lesions, respiratory side effects or any other adverse reactions?
- 4. Does glove disinfection with chlorine solutions cause damage to glove permeability or increased perforations?

#### **Guideline development process**

- Development of key research questions
- Systematic literature reviews
- Evidence-to-recommendations approach using the GRADE framework
- Expert consultation
- WHO Guideline Review Committee

#### **Issued in December 2014**

http://www.who.int/mediacentre/news/releases/2014/ebola-ppe-guidelines/en/







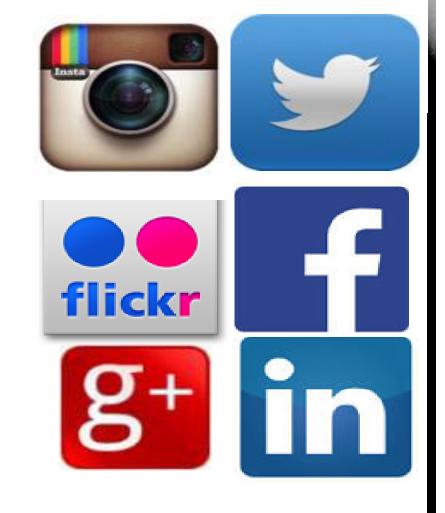
## JOIN US!

Info&Tools – 5 May – SAVE LIVES: Clean Your Hands http://www.who.int/gpsc/5may/en/

**POST YOUR PHOTOS/SELFIES at:** 

http://cleanhandssavelives.org





Follow, like and spread

@didierpittet

@GLOBAL\_POPS

@WHO

who.int/5may/en/

CleanHandsSaveLives.org

#safeHANDS





## WAR TO WASH – THE CASE FOR HAND HYGIENE IN POST CONFLICT SETTINGS (AFGHANISTAN)



#### **OVERVIEW**

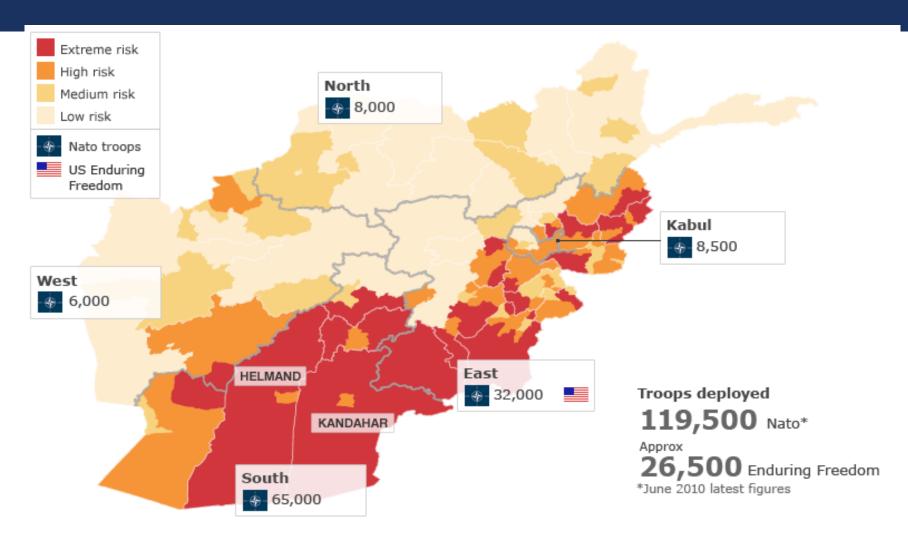
- Afghanistan Context and healthcare delivery system
- Monitoring and Evaluation project Johns Hopkins
- Hand Hygiene Opportunities and Challenges





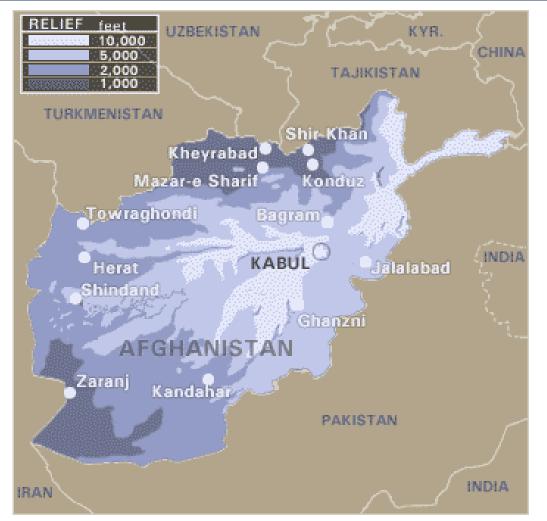


#### AFGHANISTAN: SECURITY MAP (2011) INSECURITY – A MAJOR CHALLENGE



Source: UN/Isaf/US Government

#### AFGHANISTAN – COUNTRY CONTEXT



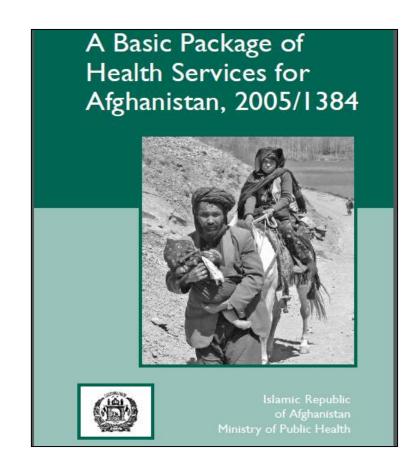
- Capital: Kabul
- Area: 251,825 sq mi; slightly smaller than Texas, highly mountainous terrain
- Population: 31,056,997 (July 2006 estimate)
   80% Sunni Muslim, 19% Shia Muslim
- Main ethnic groups: Pashtun, Tajik, Hazara, Uzbek
- Labor force: Over 80% in agriculture (farming, sheep, goats)
- Covered by an estimated 5-7 million landmines
- Leading illicit opium producer in 2005 supplying 89% of the opium produced in the world. I/3 of the GDP comes from opium trade

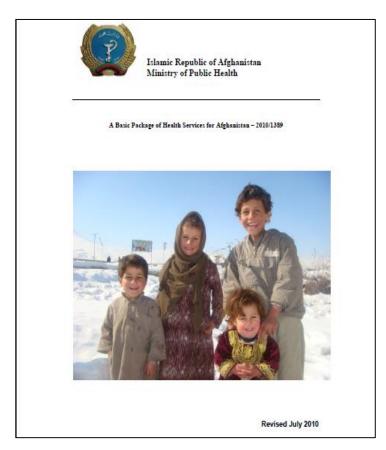
#### AFGHANISTAN – COUNTRY CONTEXT (CONTD.)

Demographic & Health Indicators	<b>Values</b>	Source	Compare with
Population (thousands) 2011, total	32358	UNICEF	
Population (thousands) 2011, under 18	17219	UNICEF	IMR (2001)
Population (thousands) 2011, under 5	5686	UNICEF	165 per 1,000 *
Population annual growth rate (%), 1990-2011	4	UNICEF	
Population annual growth rate (%), 2011-2030	3	UNICEF	MMR (2002)
Crude death rate, 2011	16	UNICEF	1600 per 100,000 live births **
Crude birth rate, 2011	43	UNICEF	
Life expectancy, 2011	49	UNICEF	
Total fertility rate, 2011	6	UNICEF	MMR (2002) of a
Urbanized population (%), 2011	24	UNICEF	district in
Infant mortality rate (per 1,000 live births)	77	AMS 2010	Badakshan = 6400
Maternal mortality ratio	327	AMS 2010	per 100,000 live
DPT 3 coverage (%)	35	MICS 2010/11	births **
Fully immunized (12-23 months( (%)	18	MICS 2010/11	

<sup>\*</sup> UNICEF

### Primary Health Care – The Backbone of any country's health system





#### BPHS AND EPHS

- Basic Package of Health Services (BPHS) – Primary Care (Basic Health Centers, Sub centers, Comprehensive Health Centers)
- Essential Package of Health Services (EPHS)
  - Hospital based services





#### JHU'S MONITORING AND EVALUATION

- Independent third party (contracted out)
- Health Services Delivery
  - Balanced Score Card Approach
  - **2004 2013**
  - Monitor delivery of basic health care services in 34 provinces
- Population level
  - Household surveys





## AFGHANISTAN – HOSPITAL ASSESSMENT, 2012-2013

- The Balanced Scorecard Report for Afghanistan hospitals
- Sample size: 97
- Types of hospitals:
  - Kabul hospitals (KHs)
  - District Hospitals (DHs)
  - Provincial hospitals (PHs) and
  - Regional hospitals (RHs)

#### DOMAINS OF ASSESSMENT

- Domain A: Client and Communities
- **Domain B: Human resources**
- Domain C: Physical Capacity
- Domain D: Quality of Service Provision
- **Domain E: Management Systems**
- **Domain F: Functionality Indicators**
- Domain G: Ethics and Values

#### DOMAIN C - PHYSICAL CAPACITY

- 4 sub-domains:
  - CI- Communications and Functional transportation
  - C2-Infrastructure
    - Infrastructure index
  - C3-Supplies, Drugs, and Equipment
  - C4: Service Availability

#### DOMAIN C – PHYSICAL CAPACITY

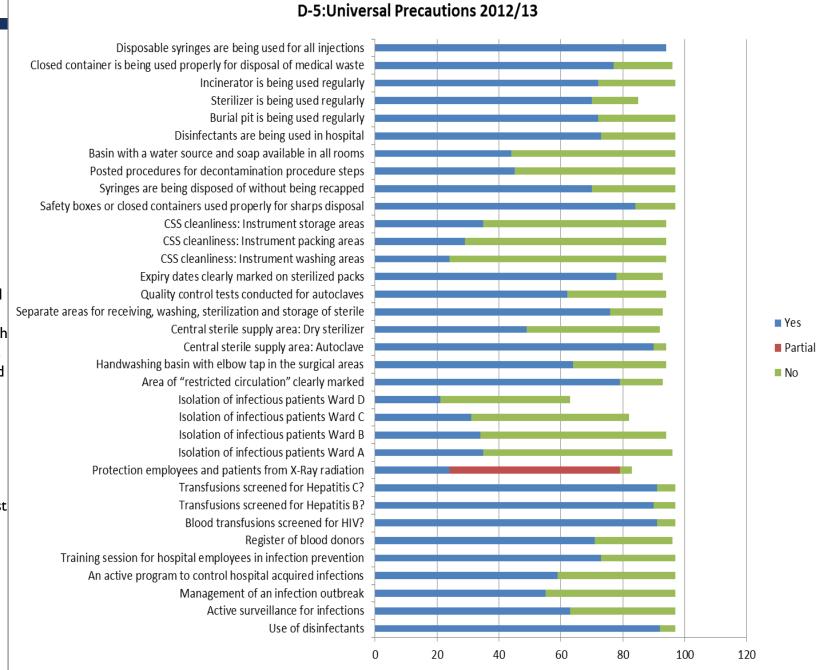
C1: Communications and Transport	This sub-domain consists of one index which assesses the functional transportation, and communications facilities.
C2: Infrastructure	This sub-domain consists of one index which asses the adequacy of the physical structure and utilities of the hospital.
C3: Supplies: Drugs and Equipment	This sub-domain includes two indices which assess the presence, adequacy, and functionality of available drugs and equipment.
C4: Service Availability	This sub-domain includes six indices which assess the provision of services.

Source: Essential Package of Health Services Balanced Score Card Report 2012-2013, MoPH Afghanist an)

			DH	PH	RH	
	LBM	UBM	Median	Median	Median	KH Median
Domain C: Physical Capacity						
C1: Communications and Transport						
C-1: Communications and Transport	75.0	100.0	100.0	87.5	100.0	100.0
C2: Infrastructure						
C-2: Infrastructure Index	66.7	93.3	76.7	87.5	93.8	81.3
C3: Supplies-Drugs and Equipment						
C-3: Equipment Functionality Index	66.4	78.3	75.2	82.8	79.8	64.9
C-4: Pharmaceuticals Availability Index	68.4	91.5	87.9	90.6	85.5	69.5
C4: Service Availability						
C-5: Lab and X-ray Index	79.5	93.3	86.4	87.0	95.7	73.9
C-6: Clinical Guidelines Index	55.6	94.4	88.9	88.9	88.9	42.9
C-7: Record System Index	72.9	95.6	85.0	92.4	93.8	94.8
C-8: Hotel Services	10.5	73.7	20.3	47.1	64.2	26.1
C-9: Safety precautions	28.2	61.1	38.7	56.3	65.4	58.8
C-10: Female Friendly Facilities	39.4	66.2	41.3	56.2	77.1	69.2

#### DOMAIN D – QUALITY OF SERVICE PROVISION

- 2 sub-domains:
  - Enabling Environment (Systems present to deliver quality services)
  - Quality of Care (direct observation of provider-patient interaction to assess quality of care delivered)
    - Client history and Physical exam
    - Client counseling
    - Universal precautions



Source:
Essential
Package
of Health
Services
Balanced
Score
Card
Report
20122013,
MoPH
Afghanist

an)



Source: www.who.int





Photo credits: MSH (Afghanistan, WASH Campaign)



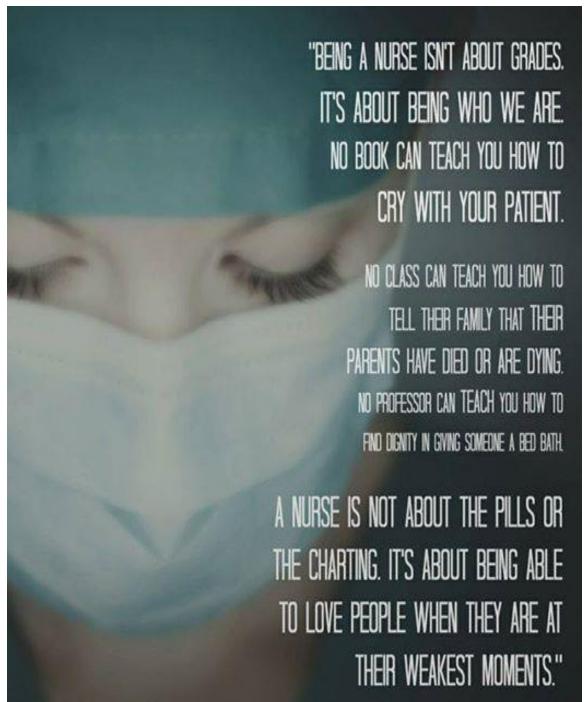
#### SUMMARY – HAND HYGIENE

- Slow Progress Areas
  - Surgical Areas of hospitals
  - Running water, taps, basins in hospitals
  - Awareness on the rise
- Challenges (opportunities for improvement)
  - Little or no systematic measurement yet
  - Promotion dependent on funding/NGO priorities
  - Limited resources and a lot to do!

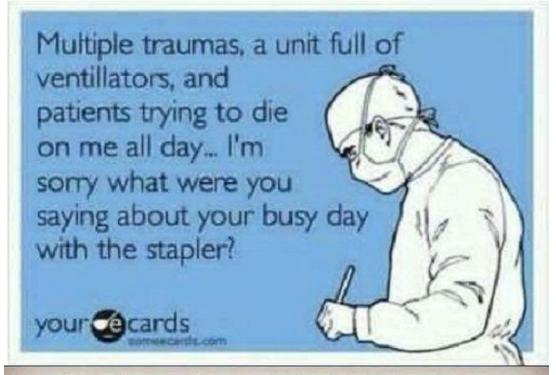
#### HEALTH SYSTEM CHALLENGES

- Health System Level
  - Infrastructure Limited
  - Fragmentation
  - Donor funding
  - Equity
  - Workforce Shortages (insufficient female health workers, cultural restrictions on women)
  - Literacy
  - Security

Thank you!







NURSING REQUIREMENTS

(to): have a memory of an elephant, an angels patience, a heart the size of the sun, eyes on the back of your head, a nasal filter, eight arms like an octopus, resistant legs, a back to hold and transfer full grown adults, a five liter bladder, and an impenetrable immune system.

BEING A NURSE IS and nine parts love



## **Your 5 Moments for Hand Hygiene**



- 60 times/hour
- Average compliance ≅ 40%



## Factors reducing HHC: State of the art

- Institutional
  - Unit type
  - Job type
  - Understaffing
  - Lack of commitment to 'safety climate'
- Behavioural/Situational
  - Wearing gloves/protective gear
  - Inconvenient location of dispensers
  - Patient needs
  - 'Forgetfulness'
  - High work-load/'too busy'
- Bodily:
  - Dry/sticky hands
- Psychological (positive influence)
  - Perceiving oneself as role model
  - Peer pressure
  - Self-efficacy (to do HHC)
  - Perceived risk of infection
  - Perceived benefits of HHC against infection
  - Early learning about HWWS at home

#### How to Wash Your Hands







Wet your hands with warm water



Squirt liquid soap onto one hand



Rub into palms and onto back of hands



Rub soap in between fingers



Rub finger tips onto palms



Rub each wrist with opposite hand



Rinse soap off with water



Dry hands with a disposable paper towel

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Information and diagrams adapted from World Health Organization Guidelines on Hand Hygiene, Illustrations by Ged Hirst 2013

#### ANTIBIOTIC RESISTANT GERMS & THE HAVOC THEY WREAK











What

work





















### Also don't work

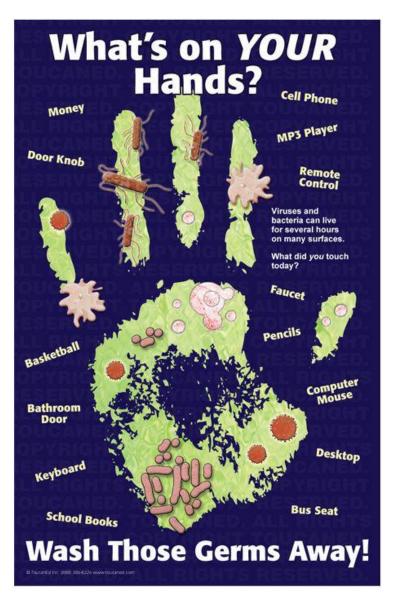




### What works -briefly



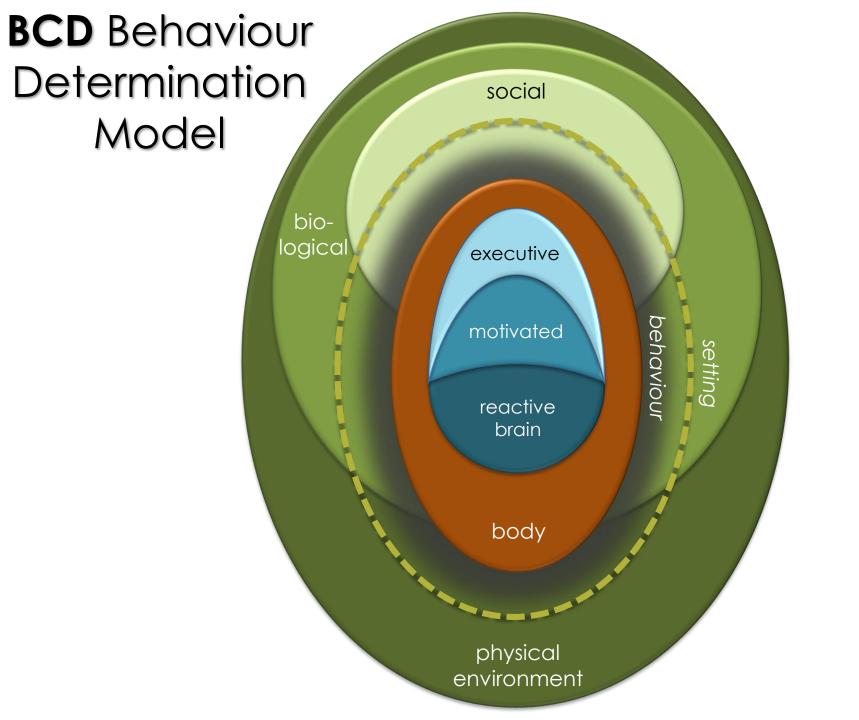
"THERE'S CONSEQUENCES IF SOMEONE ON THE FLOOR DOESN'T WASH THEIR HANDS."



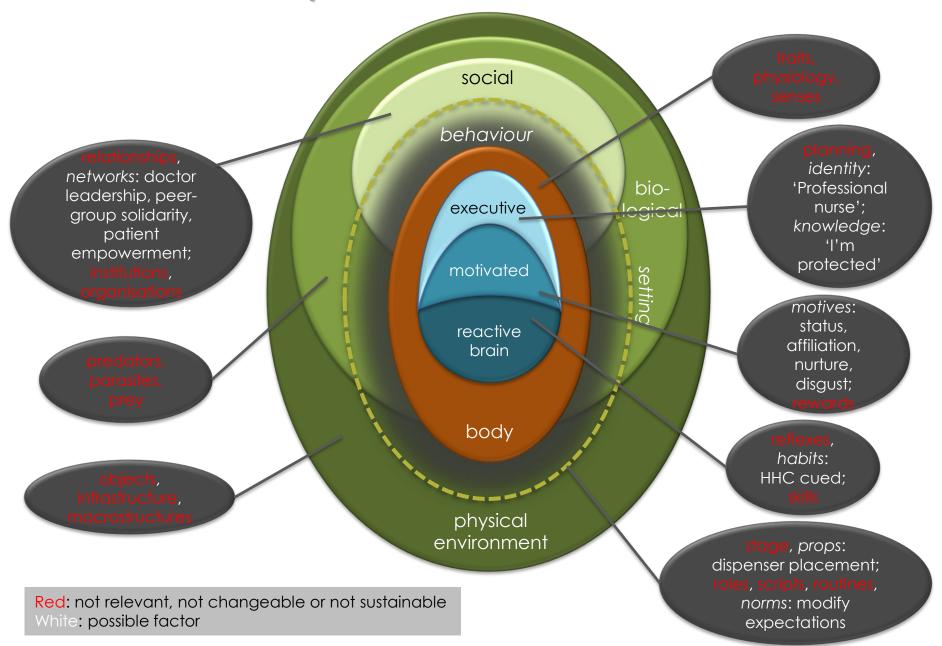
### Behaviour Change Problem

- Institutional factors can be associated with high long-term HHC, but are typically not manipulable.
- Situational factors are typically associated with low HHC, but not manipulable at scale or across situations.
- Psychological factors can be manipulated, but typically produce only temporary increases in HHC.
- Hence:

Need to identify new, relevant, manipulable factors that will produce **sustained** increases in HHC

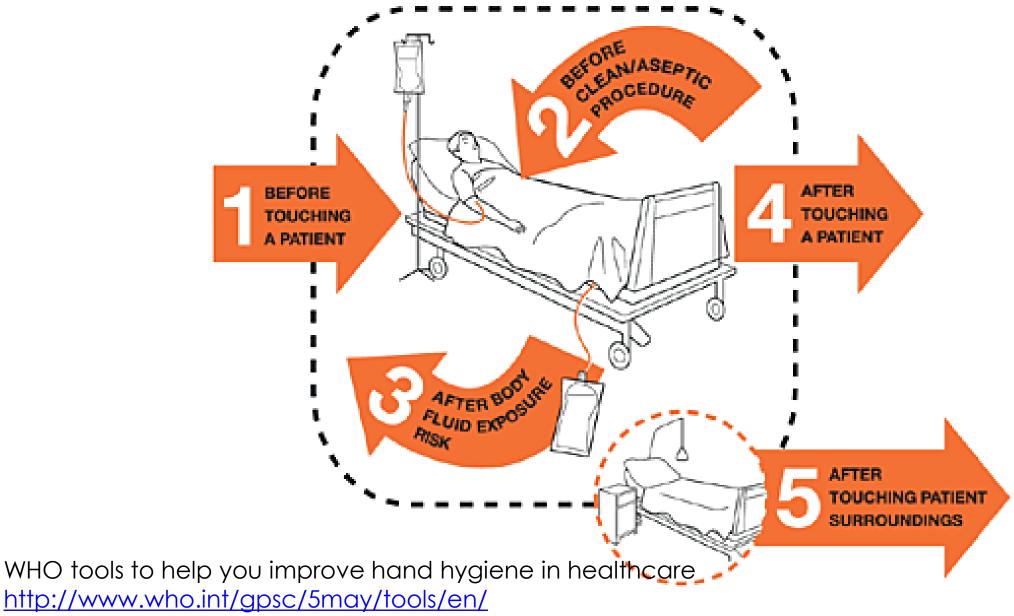


#### **BCD** HHC Analysis



#### BCD Resources

- Home page (with introduction, guide, example campaigns):
  - http://ehg.lshtm.ac.uk/behavior-centred-design/



http://www.who.int/gpsc/5may/tools/en/

# Make hygiene happen: assess your readiness

People rarely move from current to ideal practices

Achieving excellent hand hygiene in healthcare is a continuum

Assess your readiness with the WHO Hand Hygiene Self-Assessment Framework 2010:

- Systems and hand hygiene infrastructure
- Training and education
- Evaluation and feedback
- Reminders in the workplace
- Institutional safety climate for hand hygiene

English/French/Spanish: <a href="http://www.who.int/gpsc/5may/hhsa\_framework/en/">http://www.who.int/gpsc/5may/hhsa\_framework/en/</a>

# Make hand hygiene happen: small doable actions

#### For your healthcare facility:

- 1. Identify good hand hygiene practices that can be reinforced
- 2. Identify hand hygiene practices that are missing or can be improved
- 3. Identify incremental steps that:
  - move health workers from current practice to ideal practice
  - Have significant positive impact on health
  - Are feasible
- 4. Facilitate movement from step to step to achieve better hand hygiene, eg:
  - Sustainable hand hygiene facilities available, affordable, convenient
  - Education, promotion, role models, and motivation to instill a hand hygiene culture in your healthcare facility

### Hygiene in the Post-2015 Agenda

- The United Nations is in the process of developing global goals and targets for post-2015
- The UNICEF/WHO Joint Monitoring Programme (JMP), A multi-stakeholder group, has recommended WASH targets and indicators
- Hygiene includes handwashing with soap and menstrual hygiene management
- Urge UN member states, donors, NGOs, and others to advocate for the inclusion of water, sanitation, *and* hygiene in post-2015 agenda

## The Joint Monitoring Programme's WASH Recommendations

#### The Target

#### By 2030:

- to eliminate open defecation;
- to achieve universal access to basic drinking water, sanitation and hygiene for households, schools and health facilities;
- to halve the proportion of the population without access at home to safely managed drinking water and sanitation services; and
- to progressively eliminate inequalities in access.

